

- L 001 ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50W AND PAINTED
IN ACCORDANCE WITH SYSTEM 4 OF ARTICLE 442-8 OF THE STANDARD
SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- H 001 *** 5-2 STEEL ***
- L 002 ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 50 AND PAINTED
IN ACCORDANCE WITH SYSTEM 1 OF ARTICLE 442-8 OF THE STANDARD
SPECIFICATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- H 002 *** 5-2 STEEL ***
- L 003 ALL DIMENSIONS SHOWN ARE HORIZONTAL OR VERTICAL, UNLESS
OTHERWISE NOTED.
- H 003 *** ***
- L 004 ALL FIELD CONNECTIONS TO BE 7/8" DIA. HIGH STRENGTH BOLTS UNLESS
OTHERWISE NOTED.
- H 004 *** ***
- L 005 STIFFENERS ARE NOT REQUIRED ON THE OUTSIDE OF EXTERIOR BEAMS.
- H 005 *** 6.6.2.1 BEARING STIFFENERS & BEARING STIFFENERS USED AS
CONNECTOR PLATES, ROLLED BEAMS ***
- L 006 BEARING STIFFENERS ARE TO BE PLACED NORMAL TO THE WEB OF THE
GIRDER AND SHALL BE PLUMB.
- H 006 *** ***
- L 007 A CHARPY V-NOTCH TEST IS REQUIRED ON ALL BEAM SECTIONS, COVER
PLATES AND SPLICE PLATES AS SHOWN ON THE PLANS AND IN ACCORDANCE
WITH ARTICLE 1072-7 OF THE STANDARD SPECIFICATIONS.
- H 007 *** 6.6.7 CHARPHY V-NOTCH ***
- L 008 A CHARPY V-NOTCH TEST IS REQUIRED FOR WEB PLATES, BOTTOM FLANGE
PLATES, BOTTOM FLANGE SPLICE PLATES AND WEB SPLICE PLATES (IF
USED) FOR ALL GIRDERS AND IN ACCORDANCE WITH ARTICLE 1072-7 OF
THE STANDARD SPECIFICATIONS.
- H 008 *** 6.6.7 CHARPHY V-NOTCH ***
- L 009 CHARPY V-NOTCH TESTS ARE REQUIRED FOR ALL TOP OR BOTTOM FLANGE
PLATES WHICH FALL WITHIN THESE LIMITS, ALL WEB PLATES, AND ALL
SPLICE PLATES. IF A PERMITTED SHOP FLANGE SPLICE IS NOT USED,
CHARPY V-NOTCH TESTS WILL BE REQUIRED FOR THE ENTIRE FLANGE
PLATE. FOR CHARPY V-NOTCH TESTS, SEE ARTICLE 1072-7 OF THE
STANDARD SPECIFICATIONS.
- H 009 *** FIG. 6-118 ***
- L 010 NO WELDING OF FORMS OR FALSEWORK TO THE TOP FLANGE WILL BE
PERMITTED IN THIS REGION.
- H 010 *** 6.6.6 FABRICATION AND CONSTRUCTION DETAILS ***
- L 011 CAMBERED GIRDER LENGTHS SHALL BE ADJUSTED AND BEARINGS ARE TO BE
PLACED ON THE CAMBERED GIRDER SO AS TO BE ALIGNED WITH THE

ANCHORS AFTER THE DEAD LOAD DEFLECTION HAS OCCURRED. SHOP DRAWINGS SHALL BE PREPARED ACCORDINGLY.

H 011 *** 6.7.6 TFE BEARINGS ***

L 012 AT FIXED POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS SHALL BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.

H 012 *** 6.7.6 TFE BEARINGS ***

L 013 AT ALL POINTS OF SUPPORT IN SPANS _____, NUTS FOR ANCHOR BOLTS SHALL BE TIGHTENED FINGER TIGHT AND GIVEN AN ADDITIONAL 1/4 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.

H 013 *** 6.7.4 POT BEARINGS ***

L 014 WHERE DIAPHRAGMS ARE TO BE BOLTED TO EXISTING STEEL BEAMS, DO NOT REMOVE PAINT FROM THE CONTACT SURFACE.

H 014 *** 8-2 (REHABILITATION PROJECTS) ***

L 015 CONNECTION BOLTS ARE TO BE LOCATED AT THE BOTTOM OF THE CONNECTION SLOTS AND TIGHTENED TO A SNUG FIT PRIOR TO FIELD WELDING OPPOSITE END OF DIAPHRAGM. AFTER WELDING DIAPHRAGM TO CONNECTION ANGLE AND PRIOR TO THE POURING OF THE SLAB, BACK OFF BOLTS 1/2 TURN TO ALLOW FOR VERTICAL DEFLECTION OF NEW BEAM. AFTER DEFLECTIONS HAVE OCCURRED, TIGHTEN BOLTS AS REQUIRED BY THE STANDARD SPECIFICATIONS.

H 015 *** 8-2 (REHABILITATION PROJECTS) ***

L 016 NUTS ON BOLTS FOR CONNECTING DIAPHRAGM TO CONNECTOR PLATE SHALL BE LEFT LOOSE FOR PURPOSE OF ADJUSTMENT UNTIL BOTH SIDES OF SLAB HAVE BEEN POURED.

H 016 *** 6.6.3.2 INTERMEDIATE DIAPHRAGMS, STAGED CONSTRUCTION ***

L 017 THE 1 1/2" DIA. PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40 PVC PLASTIC PIPE. THE PVC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785.

H 017 *** 6.7.6 TFE BEARINGS ***

L 018 NO SEPARATE PAYMENT WILL BE MADE FOR THE PIPE SLEEVES. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE BID FOR "TFE EXPANSION BEARING ASSEMBLIES".

H 018 *** 6.7.6 TFE BEARINGS ***

L 019 AT THE CONTRACTORS OPTION, FILL PLATES (WHERE USED) MAY BE COMBINED WITH MASONRY PLATES.

H 019 *** 6.7.6 TFE BEARINGS ***

L 020 FOR TFE EXPANSION BEARING ASSEMBLIES, SEE SPECIAL PROVISIONS.

H 020 *** 6.7.6 TFE BEARINGS ***

L 021 ALL BEARING PLATES SHALL BE AASHTO M270 GRADE _____.

H 021 *** 6.7.7 SOLE PLATE DETAILS ***

L 022 FOR POT BEARINGS, SEE SPECIAL PROVISIONS.
 H 022 *** FIG. 6-128 ***

L 023 ANCHOR BOLTS SHOULD BE GROUTED BEFORE FALSEWORK IS PLACED.
 H 023 *** 6.7.6 TFE BEARINGS ***

L 024 PERMITTED FLANGE AND WEB SHOP SPLICES SHALL NOT BE LOCATED
 WITHIN 15 FEET OF MAXIMUM DEAD LOAD DEFLECTION (NOR WITHIN 15
 FEET OF INTERMEDIATE BEARINGS OF CONTINUOUS UNITS). KEEP 2 FEET
 MINIMUM BETWEEN WEB AND FLANGE SHOP SPLICES. KEEP 6" MINIMUM
 BETWEEN CONNECTOR PLATE OR TRANSVERSE STIFFENER WELDS AND WEB OR
 FLANGE SHOP SPLICES.
 H 024 *** 6.6.6 FABRICATION AND CONSTRUCTION DETAILS ***

L 025 A BOLTED FIELD SPLICE WILL BE PERMITTED IN THE GIRDERS IN
 SPAN _____. IF A FIELD SPLICE IS USED, IT SHALL BE MADE ENTIRELY AT
 THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL MEASUREMENT OR
 PAYMENT WILL BE MADE FOR THE ADDITIONAL MATERIALS REQUIRED. THE
 LOCATION, DETAILS AND SPLICE MATERIAL WILL BE SUBJECT TO THE
 APPROVAL OF THE ENGINEER.
 H 025 *** ***

L 026 STUDS ON GIRDERS MAY BE SHIFTED UP TO 1" IF NECESSARY TO CLEAR
 FLANGE SPLICE WELD.
 H 026 *** ***

L 027 WHEN WELDING THE SOLE PLATE TO THE GIRDER, USE TEMPERATURE
 INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE
 TEMPERATURE OF THE BEARING DOES NOT EXCEED 250°F. TEMPERATURES
 ABOVE THIS MAY DAMAGE THE TFE OR ELASTOMER.
 H 027 *** 6.7.4 POT BEARINGS ***

L 028 SOLE PLATES SHOULD BE WELDED TO BEAM FLANGES AND ANCHOR BOLTS
 SHOULD BE GROUTED BEFORE FALSEWORK IS PLACED.
 H 028 *** 6.7.4 POT BEARINGS ***

L 029 WHEN FIELD WELDING THE SOLE PLATE TO THE GIRDER FLANGE, USE
 TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO
 ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED
 300°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.
 H 029 *** 6.7.7 SOLE PLATE DETAILS ***

L 030 SLOPE FOR THE ZERO CAMBER BASE LINE VARIES.
 H 030 *** 6.6.8.2 CAMBER FOR CONTINUOUS SPANS ***

L 031 NO SHOP CAMBER REQUIRED, TURN NATURAL MILL CAMBER UP.
 H 031 *** 6.6.8.3 CAMBERS FOR ROLLED BEAMS ***

L 032 ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.
 H 032 *** FIG. 6-128, 6-131 ***

L 033 TENSION ON THE AASHTO M164 BOLTS SHALL BE CALIBRATED USING
 DIRECT TENSION INDICATOR WASHERS IN ACCORDANCE WITH ARTICLE 440-
 8 OF THE STANDARD SPECIFICATIONS.

H 033 *** 6.6.5 BOLTED CONNECTIONS ***

L 034 END OF BEAMS AND GIRDERS SHALL BE PLUMB.

H 034 *** 6.6.6 FABRICATION AND CONSTRUCTION DETAILS ***

L 035 THE CONTRACTOR MAY SUBSTITUTE DISC BEARINGS FOR THE POT BEARINGS SHOWN. FOR OPTIONAL DISC BEARINGS, SEE SPECIAL PROVISIONS.

H 035 *** 6.7.5 DISC BEARINGS ***

L 036 BEARING STIFFENER MAY REQUIRE COPING IF WIDER THAN BOTTOM FLANGE.

H 036 *** 6.6.2.1 BEARING STIFFENERS & BEARING STIFFENERS USED AS CONNECTOR PLATES, PLATE GIRDERS ***

L 037 APPLY AN 8 MIL THICK 99.99 PERCENT ZINC (W-ZN-1) THERMAL SPRAYED COATING WITH A 0.5 MIL THICK SEAL COAT TO ALL GIRDER SURFACES IN ACCORDANCE WITH THE THERMAL SPRAYED COATING SPECIAL PROVISION AND SECTION 442 OF THE STANDARD SPECIFICATIONS. PRIOR TO APPLICATION, CREATE A COMPANION COUPON FOR APPROVAL BY THE ENGINEER. FOR THERMAL SPRAYED COATING, SEE SPECIAL PROVISIONS.

H 037 *** 12-13 WEATHERING STEEL AND STEEL COATINGS ***

L 038 PRIOR TO BEGINNING METALLIZATION, THE CONTRACTOR WILL PROVIDE METALLIZED SAMPLES TO THE ENGINEER FOR APPROVAL.

H 038 *** 12-13 WEATHERING STEEL AND STEEL COATINGS ***

L 039 AT THE CONTRACTOR'S OPTION, THE OPTIONAL BOLTED FIELD SPLICE MAY BE OMITTED, PROVIDED THE CONTRACTOR OBTAINS ALL PERMITS REQUIRED FOR TRANSPORTING THE LONGER PIECE LENGTHS.

H 039 *** 6.6.4 BOLTED FIELD SPLICES ***

L 040 NEEDLE BEAM TYPE SUPPORTS ARE REQUIRED FOR THE OVERHANG FALSEWORK IN THE SPANS WITH 27" BEAMS.

H 040 *** 6.6.2 DESIGN ***

L 041 AT THE CONTRACTOR'S OPTION, THE DIAPHRAGM WITH THE WELDED GUSSET PLATES MAY BE USED IN LIEU OF THE DIAPHRAGM WITH BOLTED ANGLES AT NO ADDITIONAL COST TO THE DEPARTMENT.

H 041 *** 6.6.3.2 INTERMEDIATE DIAPHRAGMS ***

L 042 FABRICATORS SHALL DETAIL DIAPHRAGM MEMBERS AND CONNECTIONS FOR FULL DEAD LOAD FIT UP. GIRDERS SHALL BE PLUMB AFTER THE FULL AMOUNT OF DEAD LOAD IS APPLIED.

H 042 *** 6.6.6 FABRICATION AND CONSTRUCTION DETAILS ***

L 043 STRUCTURAL STEEL ERECTION IN A CONTINUOUS UNIT SHALL BE COMPLETE BEFORE FALSEWORK OR FORMS ARE PLACED ON THE UNIT.

H 043 *** 6.6.9 CONSTRUCTION NOTES ***

L 044 THE CONTRACTOR MAY SUBSTITUTE DISC BEARINGS FOR THE POT BEARINGS SHOWN. FOR OPTIONAL DISC BEARINGS, SEE SPECIAL PROVISIONS.

H 044 *** PSP ***